IN THE CLAIMS:

Please amend claims as follows.

1. (currently amended) A method of producing a perovskite complex oxide wherein,

at the time of producing a perovskite (RTO₃) complex oxide phase by heat treating a precursor substance that is a powdery starting material containing at least one rare earth element R and at least one transition metal element T, there is used as the precursor substance an amorphous substance containing the R and T components at a content ratio required for producing the complex oxide, and the amorphous substance is a precipitated substance obtained by precipitation from an aqueous solution containing R ions and T ions using a precipitant and a reducing agent <u>under a pH of 6 to 12</u>.

- 2. (original) A method of producing a perovskite complex oxide according to claim 1, wherein a perovskite complex oxide phase is generated by heat-treating the precursor substance at a temperature of $400 \, ^{\circ}\text{C} 700 \, ^{\circ}\text{C}$.
 - 3-4. canceled.
- 5. (previously presented) A method of producing a perovskite complex oxide according to claim 1, wherein the precipitant is an alkaline carbonate or carbonate containing ammonium ions.
- 6. (previously presented) A method of producing a perovskite complex oxide according to claim 1 , wherein the precipitant is a combination of ammonia and carbon dioxide.

- 7. (previously presented) A method of producing a perovskite complex oxide according to claim 1, wherein the reducing agent is a hydrogen-generating compound.
- 8. (previously presented) A method of producing a perovskite complex oxide according to claim 1, wherein the perovskite complex oxide has a BET specific surface area exceeding $10 \text{ m}^2/\text{g}$.

9-10, canceled

- 11. (new) The method of claim 1, wherein a total ion concentration of R and T in the aqueous solution used in the precipitation step is within the range of 0.01 0.60 mole/L.
- 12. (new) The method of claim 1, further comprising the step of precipitating the amorphous substance from the aqueous solution containing the R and T ions using the precipitant and the reducing agent under a pH of 6 to 12.
- 13. (new) The method of claim 12, wherein a total ion concentration of R and T in the aqueous solution used in the precipitation step is within the range of 0.01 0.60 mole/L.